

Title (en)
Improved electrolytic cell

Title (de)
Verbesserte elektrolytische Zelle

Title (fr)
Cellule électrolytique améliorée

Publication
EP 2860287 A1 20150415 (EN)

Application
EP 13188212 A 20131011

Priority
EP 13188212 A 20131011

Abstract (en)
An improved electrolytic cell and a process for the manufacture of halogens, especially of F₂, using this cell is described which cell comprises at least one diaphragm or at least one membrane, preferably a diaphragm, between the cathode compartment and the anode compartment. The cell provides improved current efficiency and improved energy efficiency because the distance between cathode parts and anode can be decreased compared to conventional electrolytic cells, and the recombination of H₂ and F₂ is prevented.

IPC 8 full level
C25B 1/26 (2006.01); **C25B 9/19** (2021.01)

CPC (source: EP)
C25B 1/245 (2013.01); **C25B 1/26** (2013.01); **C25B 9/19** (2021.01); **C25B 13/04** (2013.01); **C25B 13/08** (2013.01); **Y02P 20/20** (2015.11)

Citation (applicant)
• WO 2007116033 A1 20071018 - SOLVAY FLUOR GMBH [DE], et al
• WO 2009080615 A2 20090702 - SOLVAY FLUOR GMBH [DE], et al
• WO 2009092453 A2 20090730 - SOLVAY FLUOR GMBH [DE], et al
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Citation (search report)
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• [X] GB 346774 A 19310409 - IG FARBENINDUSTRIE AG
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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EP 13188212 A 20131011; EP 2014071571 W 20141008; TW 103135205 A 20141009